

DaimlerChrysler AG

Patent claims

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1. An interior lamp (2), especially for a vehicle, which has a normal illuminating function (2) and an ambient illuminating function (4) for the purpose of providing ambient illumination for the interior, characterized in that an incandescent lamp (11) is provided for the normal illuminating function (2), and this lamp (11) radiates through an optical waveguide arranged as a diffusing screen (12).

2. The interior lamp (2) as claimed in claim 1, characterized in that at least one light-emitting diode (10) is provided for the ambient illumination (4), the light from said light-emitting diode (10) being injected into the optical waveguide (12) and output at its interference points (9).

3. The interior lamp (2) as claimed in claims 1 and 2, characterized in that a further luminous means (11a) is arranged as a reading lamp (5) below the optical waveguide, which is in the form of a diffusing screen (12), in addition to the normal illuminating function (2).

4. The interior lamp (2) as claimed in claims 1 to 3, characterized in that the diffusing screen (12) which is associated with the luminous means (11) has the diffusing points (8), and that which is associated with the further luminous means (11a) has other diffusing points (8a).

5. The interior lamp as claimed in claims 1 to 4,
characterized
in that a reflector (7) is arranged such that the light
5 diffused by the interference points (8, 9) into the
interior lamp is reflected back to the optical
waveguide (12) such that it passes into the vehicle
interior in the same way as the normal light function.

10 6. The interior lamp as claimed in claims 1 to 5,
characterized
in that the interference points (8, 9) are formed such
that the light output points, which are preferably
connected to one another to form a continuous light
15 output area, have essentially the same light intensity.

7. The interior lamp (2) as claimed in one of the
preceding claims 1 to 6,
characterized
20 in that the normal (2) and the ambient light function
(4) are switched on independently of one another, the
ambient illumination (6) being switched off when the
normal light function (11) is activated, and the normal
light function (11) being switched off in the case of
25 the ambient light function (6).

8. An interior lamp (2), especially for a vehicle,
which has a normal illuminating function (2) and an
ambient illuminating function (4) for the purpose of
30 providing ambient illumination for the interior,
characterized
in that an incandescent lamp (11) is provided for the
normal illuminating function (2), and this lamp (11)
radiates through a disk arranged as a diffusing screen
35 (12), and the disk (12) emits light itself for the
ambient illuminating function by a voltage being
applied.